CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/B-D/2019-20/140

Date:19.12.2019

To

Executive Engineer,

Byatarayanapura Division,

Bruhat Bangalore Mahanagara Palike

Bangalore.

CERTIFICATE

Reference : BBMP/EE/BTP/WO/233/2018-19 Date: 26.02.2019

Name of work: Maintenance of BBMP Building in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Final bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

19/12/2019

Authorized Signature

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

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To,

Executive Engineer,
Byatarayanapura Division,
Bruhat Bangalore Mahanagara Palike
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : BBMP/EE/BTP/WO/233/2018-19 Date: 26.02.2019

Name of work: "Consultancy services for Construction Supervision, Project Management and quality assurance for the works in ward No. 09, 10 and 11 (Number of works-33)"

Sub Name of Work: Maintenance of BBMP Building in Ward No.09(Vidyaranyapura), Vidyaranyapura Sub Division, BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Final bill**

Sl. No	Description of Work	Unit	Qty
1	KSRB 2-1.1:Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manully (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per Specifications. Specification. No. KBS 2.1 (a) / 2.3.1 Page No.3,item No.2.1,PWD SR2016-17	Cum	12.58
2	KSRB 2-2.1:Earthwork excavation for Foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead up to 50m after breaking of clods complete as per Specifications. Specification. No. KBS 2.1 (a) / 2.3.5 Page No.2.3of PWD SR2016-17	Cum	8.59
3	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.57cum machine mixed, machine mixed, concrete liad in layers not exceeding 15cms, thick,well compacted,in foundation,including cost of all materials,labour, HOM of machinery,curing complete as per labour,HOM of machinery,curing complete as per specification. specifications No.KBS 4.1.4.2 Page No.12, item No.4.3 of PWD SR2016-17	Cum	33.74

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Sl. No	Description of Work	Unit	Qty
4	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20cms high,bond stones at two m. apart in each course incluidng cost of materils, labour, curing coplete as per specifications. KBS 5.1.13 Page No. 23/ Item No. 5.6, PWD SR 2016-17.	Cum	4.77
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6 stone chistle dressed in courses not less than 15cms high,bond stones at two m. apart in each course incluidng cost of materils, labour, curing coplete as per specifications. KBS 5.1.13 Page No. 23/ Item No. 5.9, PWD SR 2016-17.	Cum	2.15
6	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M20 for RCC works laid in 15cms thick layers and well compacted vibrating,curing for raft foundation column footing,main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges)Page No.18,item No 8, PWD SR2016-17.	Cum	2.68
7	KSRB2.3:Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms,in depth,compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, inculding cost of all labour complete as per specifications, specification.No KBS 2.9,Page No.6/ Item No.2.10/PWD SR 2016-17.	Cum	8.59
8	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 incluidng cost of all materials, labour charges, scaffolding, curing complete as per specifications. KBS No. 5.4 (Page No. 25, Item No.5.27.1, PWD SR2016-17.	Sqm	24.68
9	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured & paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Page No : 17, item No : 4.46.2,PWD SR2016-17.	Tonne	0.27

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Sl. No	Description of Work	Unit	Qty
10	KSRB 10-3: Providing and laying Integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies,terraces etc.,consisting of following application (a) applying and grouting a slurry coat of neat cement using 2.75 Kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab atfer cleaning the surface before treatment. (b) Laying cement concrete using broken mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thicklayer of cement mortar 1.5 admixed with propeietary water proofing compound to required slope and treating similarly the adjoining off junctions of walls and slabs(c) After two days of proper curing. applying a second coat compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with properietary water proofing compound and finally finishing the surface with trowel and neat cement slurrt and making of 300x300mm square (e) The whole terrace so finished shall be flooded with for a	Sqm	360.87
11	KSRB 15-3-13:Providing 12mm thick cement plaster in single coat with cement mortar 1:3 to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of all materials, labour, curing complete as per specificatons. (Page No. 114, Item No.15.21 of PWD SR 2016-17	Sqm	128.53
12	KSRB 15-3.8:Providing 18mm thick cement plaster in single coat with cement mortar 1:4 to brick masonry including rounding off corners wherever required smooth rendering : Providing and removing scaffolding,including cost of materials,labour,curing complete as per specificatons. (Page No. 114, Item No.15.16, PWD SR 2016-17	Sqm	236.11
13	KSRB 15-3.9:Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering : Providing and removing scaffolding,including cost of materials,labour,curing complete as per specificatons. (Page No. 114, Item No.15.17, PWD SR 2016-17	Sqm	15.95
14	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs,landings, balconies and likes, thickness upto 200 mm incluidng cost of all matrials, labour complete as per specification. Specification No. KBS 4.6.2 Page No. 15, Item No. 4.30 PWD SR 2016-17	Sqm	9.18
15	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth, incluidng cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 Page No. 16, Item No. 4.34,PWD SR 2016-17.	Sqm	7.42

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Sl. No	Description of Work	Unit	Qty
16	KSRB 7.3: Providing and fixing 1mm thick M.S.Sheet garage door with frame and diagonal braces of size 40x40x6mm angle iron,3.15mm thick M.S.Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of machinery completed as per specifications. Double leaf door of size 2.4x2.4m specification No.KBS 7.9/7.12, Page No.31/Item No.7.3/PWD SR 2016-17	Sqm	12.29
17	KSRB 7.7: Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawing using Z angles of 25x33x3mm weighing 1.419Kg/m both for outer and inner framesand central mullion section of size 25x46x3mm weighting 2.28Kg/m duty providing T section 19x193mm weighing 0.839kg/m for glazing of windows not more than 34cms. C to C including providing and fixing 4mm.thick reeded glass with teakwood beading of required size,all steel sections should confirm to I.S 7452:1990,4Nos, of holdfasts of approved size, sectionshould be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically all the steel surface shall be throughly cleaned free of rust and finishing with one coat of anti-corosive paint of approved colour and make including cost of materials, fixtures.labour an HOM of machinery complete as mixed with proprietary water proofing compound and finally finishing the surface with trowel neat	Sqm	6.48
18	KSRB15-14.1: Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth,cost of materials,labour,complete as per specifications Page No.117/Item No.15.49.1, PWD SR2016-17.	Sqm	1214.31
19	KSRB 15.16.1 : Providing and finishing external walls in tow coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer Page No. 117, Item No. 15.53.2,SR-2016-17.	Sqm	654.57
20	KSRB 14.10-3:Providing flooring with 25mm to 40mm thick polished cadapa slabs using cement mortar 1:6,25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, inculding cost of materials,labour,curing polishing complete as per specifications.specification No.KBS Page No.103/Item No.14.17,PWD SR 2016-17	Sqm	11.80
21	KSRB 14.7-2: Providing and laying red oxide flooring 10mm thick with an under layer of 30mm thick M15 cement concrete,using broken granite metal of 12.5mm nomincal size and top layer of 10mm thick plaster with 1:3 cement mortar mixed with red oxide (using 3.5kg of red oxide per 50kg of cement) finished with floating coat of neat cement mixed with red oxide (mix of same proportion),including cost of materials, labour,curing,complete as per specifications,specification No.KBS 14.3Page No.102,item No.14.9,PWD SR2016-17	Sqm	75.70

Sl. No	Description of Work	Unit	Qty
22	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and /or wood based surface with enamel paint to give an even shade,cleaning the surface of all dirt,dust an foreign matter,sand papering including cost of materials,labour,complete as per specifications (P.No118,No.15.60.1 of SR2016-17)	Sqm	241.88
23	KSRB 14-14.5: Providing ceramic tiles of approvedmake,shade and size for flooring treads of steps and landings laid on a bed of 12mm thick,cement mortar 1:3 mix,flush pointing with white cement using colour pigment,including cost of materials,labour,curing,complete as per specifications-for Ceramic Tiles of size 30x30cms 6mm thick.Page No.106,Item No.14.36.2,PWD SR2016-17.	Sqm	9.00
24	KSRB 14-17.2:Providing skirting,dado,rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rought plaster surface (Excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials,labour,complete as per specifications.specification NoKBS14.16,14.17-colour glazed tiles 30x60cms 6mm thick with border of size 30x10cms.Page No.106,item No.14.41.2PWD SR2016-17.	Sqm	19.13
25	KSRB 11-1: Providing and fixing white vitreous china clay,water closet Indian type (Squatting Pan) of size 580mm with footrests,100mm S or P trap,10litre low level,PVC flushing cistern (all are approved make) with fittings,C.I/M.S brackets,32mm diameter flush pipe fittings and clamps,overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets,cutting and making good the wall and floor wherever required,inculding cost of materials,labour complete as per specifications.Specification No.KBS 11Page No.77/Item No.12.1/PWD SR2016-17.	Pan	3.00
26	KSRB 11-11.1: Providing and fixing white vitreous china clay , flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.i/M.S brackets,32mm C.P brass waste of standard pattern, painting of fittings and brackets,cutting and making good the wall and floor wherever required,including cost of materials,labour complete as per specifications, Specification No.KBS 11 Page No.80, Item No.12.23,PWD SR 2016-17	Unit	2.00
27	KSRB13-1.4: Providing and fixing to wall, celling floor galvanised /mild steel tube 32mm dia Nominal bore with fittings (medium grade weight 1.65 kg/mtr) B class inculding cost of all materials,labour charges.HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14/13.8 Page No.90,Item No.13.4,PWD SR-2016-17.	Mtrs	30.00
28	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer black or blue and inner white layer of approved quality and make conforming to I.S.I/ISO/SSI specifications.(P.No.265/I.No.37.58 of CSR 2016-17.	L	500.00
29	KSRB 13-6.2.2: Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.Specification No.KBS 13.2.2/13.3 Page No.91, Item No.13.27,PWD SR 2016-17.	Each	9.00

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Sl. No	Description of Work	Unit	Qty
30	KSRB13-14: Providing and laying in position to required level or slope 150mm internal diameter glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1 testing of pipes and joints,including cost of materials,labour charges omplete as per specification s,Specification No.KBS 15.2.5/12.7 Page No70/item No.11.2/PWD SR2016-17.	Mtrs	30.00
31	Cement concrete paveemnt construction of un-reinfroceed plain cement concrete pavement thickness as per design,over a prepared sub base with OPC cement or any other type as per clause 1051 2.2 design mix M20/M30, with 25mm and down size graded granite netal coarse aggregates and fine aggregates, with superplastisiser @3lts confirming to mixer of not less than 0.6cum capacity and appropriate weight batcher as per approved mix design, laid in approved fixing side form work (steel channel,laying and fixing of 125 micron thick polythene film ,wedges,steel plates including levelling the form work as per drawing) Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion,construction and longitudinal joints including groove cutting charges,joint sealant,admixtures as approved, curing compound,finishing to lines and grades as per drawing complete as per specifcations -M20 (at 300kg per Cum coarse aggregate @0.64cum and fine aggregate @0.43cum)Page No.177/item No.22.62 PWD SR 2016-17	Cum	21.89

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

Authorized Signature

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